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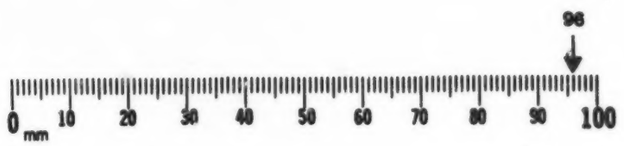

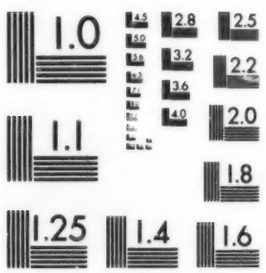

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SASKATCHEWAN HEALTH RESEARCH BOARD

ANNUAL REPORT

Period ending March 31, 1983

—Saskatchewan Health Research Board—

#5 — 3002 Louise Street
Saskatoon, Saskatchewan
S7J 3L8 (306) 373-5575

November 1983

The Hon. Graham Taylor
Minister of Health
Room 38
Legislative Building
REGINA, SK
S4S 0B3

Sir:

I beg to present herewith for your consideration the Annual Report of the Saskatchewan Health Research Board for the fiscal year ending March 31, 1983.

Respectfully submitted

D. D. Johnson

Dr. D. D. Johnson, Chairman

DDJ/sl

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1. CHAIRMAN'S STATEMENT

The Saskatchewan Health Research Board entered a significant transition phase during 1982-83.

First, the Board underwent its first major change in personnel in March 1983. The previous Board served the health research community with distinction for over three years. The new Board has benefitted from the presence of four incumbents, which provided a sense of continuity in its deliberations.

Second, the appointment of a significant number of new members provided a natural incentive to review and reflect upon the history of the SHRB to date. As part of this exercise, the Board undertook its first survey of award recipients. Health research is an ongoing activity whose ultimate results may not be apparent for a number of years. Despite this, the survey revealed a considerable number of accomplishments among grant recipients, which suggests that the peer review process has been successful in allocating funds to high quality applicants.

Third, 1982-83 marked the fourth year of the original five year mandate of the Board. The Board determined that a comprehensive plan for the future should be prepared, combining the historical perspective gained to date and a vision of what health research activity should become in Saskatchewan in the next five years. This planning process will come to fruition in 1983-84, and the Board anticipates a bright future for health research in the province if the rate of growth is accelerated.

Fourth, both the old and the new Board continued the trend of providing an increasing proportion of the budget in support of newer investigators. In view of the restricted funds available, the Board has had to identify the most pressing needs of the research community and contribute in these key areas. A critical juncture for health researchers is in the establishment phase of their careers. Allowing committed and enthusiastic young investigators to begin work immediately is, in the view of the Board, a sound investment which has already yielded substantial returns to the province and to health research in general.

Fifth, both the old and the new Board renewed the commitment to improving the socio-health research community. We have embarked upon a planning process which we hope will result in the development of a stronger and more integrated socio-health research community in the province. We realize that in the socio-health area, we will have to be to some extent initiators and coordinators; this is distinct from the circumstances in the biomedical research community, which is larger and has been established a good deal longer and with a clearer focus. The Board anticipates devoting a considerable part of its efforts toward developing options for new initiatives in socio-health during 1983-84.

Finally, 1982-83 saw the beginning of a trend which has continued into 1983-84. The quality of research proposals and applicants for training and research fellowships has increased markedly during the third and fourth competitions. This constitutes a notable positive sign for the future. We surmise that the very existence of the SHRB has contributed to some extent to the improved quality of proposals by providing a local mechanism for soliciting and peer reviewing applications. High quality proposals are made possible by experience, communication within the research community, and the constructive criticism of expert reviewers. The dramatic improvement in the overall quality of applications can only bode well for the coming years, and we see realistic prospects for Saskatchewan playing a prominent role in at least some fields at the cutting edge of new developments and applications.

The evolution of the Board has taken place largely in parallel with the gradual maturation of the Saskatchewan health research community. In no way can we describe the health research situation in the province as adequate and flourishing. However, circumstances have improved significantly over the past four years, and there are clearly opportunities for improvement in the immediate future given the increasingly solid base. We must acknowledge that health research is highly competitive, and success in attracting grants, contributing to breakthroughs, and recruiting the best new investigators results from a united commitment to research among individuals, institutions, and governments.

The Board is more confident than ever that the Saskatchewan research community has earned an increase in the resources to be placed at its disposal. During 1983-84 we will be submitting a plan requesting a substantial infusion of funds. These funds are necessary to enable us to be fully competitive with other provinces in health research. Even more fundamentally, these resources are necessary if the momentum generated by local researchers over the past several years is to be sustained. We are convinced that a sound case exists for enhancing the SHRB contribution to health research, and trust that Government will approve of our plans, not only to improve health research specifically, but also as part of an overall commitment to research and development in a modern society.

D. D. Johnson
Chairman

2. LEGISLATIVE AUTHORITY AND MANDATE

The Saskatchewan Health Research Board (SHRB) was established as a corporate body under the provincial Health Research Act, proclaimed September 15, 1979, to administer the Health Research Fund. The Board was empowered under the Act to "assist and stimulate research in the healing arts and health sciences including:

- the causes, detection, distribution, prevention and management of human illness and disabling conditions;
- health maintenance and health promotion;
- the social, environmental, and biological aspects of the human aging process;
- the utilization of health services."

The Board is to consist of at least six and not more than twelve members appointed by the Lieutenant Governor in Council who are residents of Saskatchewan as follows: two representatives from the health sciences or healing arts in the University of Saskatchewan and one in the University of Regina, one member from the Saskatchewan Universities Commission, one from the Department of Continuing Education, one official from the Department of Health and up to six others. Both Chairman and Vice-Chairman are designated by the Lieutenant Governor in Council. Appendix 1 lists the members who served on the outgoing and incoming Board during 1982-83.

3. THE SASKATCHEWAN HEALTH RESEARCH FUND

With the proclamation of the Act, the Saskatchewan Health Research Fund came into being for the purpose of assisting and stimulating research in the healing arts and health sciences. Into that fund, there is to be paid annually out of the consolidated fund, any monies that may be appropriated by the Legislature for the purposes of this Act. In each of the fiscal years 1979-80 and 1980-81, grants of $750,000 were allocated to the fund with the understanding that $500,000 of each grant be invested as capital and the $250,000 together with any earnings on investment be used by the Board for research in the health field and the payment of expenses incurred in the administration of this Act. The total budget in 1981-82 remained at $750,000, of which $250,000 was allocated to the capital

fund, leaving $500,000 plus investment earnings usable for grants and administration. In 1982-83, $175,000 of the $750,000 budget was allocated to the capital fund which stood at $1,425,000 as at March 31, 1983. As stipulated in the Act, the Board is entitled to receive donations or bequests, subject to such terms of the donation or bequest as the Board considers advisable.

Attached to this report as Appendix 2 are the financial statements which detail the financial transactions of the Board and the auditor's report thereon.

4. COMPETITION AWARDS

4.1 Categories of Awards in the Third Competition

The Board retained the grant categories developed and refined during the first two competitions.

Grants-In-Aid (GIA) of Research

1. Establishment Grants to assist new researchers in becoming established in health research, to a maximum of $25,000 per annum for up to two years, non-renewable. Grants may be used to hire personnel (technicians, assistants) and/or to purchase equipment and supplies.

2. Research Grants of one to two years' duration, tenable only in Saskatchewan, in amounts not to exceed $25,000 per annum, to be awarded to established investigators. Funds may be used for materials and supplies and/or for personnel.

3. Venture Grants to be awarded for unusual or innovative research ideas which may not fit into the more traditional categories. Grants of up to $5,000 may be awarded for one year only for meritorious and creative proposals.

Personnel Awards

1. Training Fellowships to worthy persons wishing to develop their research careers in Saskatchewan. Awards are normally for periods of up to two years, with renewals permissible in some circumstances. The awards were valued at $9,000 annually during 1982-83. Applications are accepted from individuals with a meritorious baccalaureate, master's, or equivalent degree, who are planning to undertake research training in Saskatchewan. Applicants intending to train outside Saskatchewan must be willing to make a commitment to return to the province providing suitable employment is available.

2. Research Fellowships for a limited number of individuals with academic distinction who wished to develop their fields of research and to equip themselves for independent investigation in institutions in Saskatchewan. Awards are for periods of up to two years, with an extension to a third year in some circumstances. During 1982-83 the minimum value of the award was $17,250 annually. Applications are accepted from individuals with a Ph.D., M.D., D.D.S., D.V.M. or equivalent degree.

All applications for grants-in-aid of research were grouped together in the first competition. However, it was concluded from that experience that there should be more opportunity for specialization in judging the merits of the applications. Accordingly, for the second and subsequent competitions applications have been sub-divided into two categories: biomedical and socio-health. Each category is assigned its own peer review committee. The establishment of a separate socio-health category acknowledges the uniqueness of the area; the underdeveloped state of socio-health research in Saskatchewan; and the Board's commitment to its mandate to encourage investigations in the various non-biomedical health disciplines.

All personnel applications are adjudicated by a single committee. In addition to the awards described above, the Board has received applications for the Research Scholar Award, for extraordinarily meritorious young investigators for up to five years. The Board has not to date funded a scholar.

In all, then, the Board has established three review committees for applications. Committee memberships incorporate a broad range of expertise in the health research and educational fields.

5. COMPETITION AND REVIEW PROCESS

The guidelines last amended in 1981 were followed by the review committees in 1982-83 (see Appendix 3). In the first (1980-81) competition, the then two review committees together consisted of seven Board members and seven non-members. In the second and subsequent competitions, only the Chairman has been a member of the Board; all others have been recruited from the research community in order to ensure that the process remains autonomous and at arm's length from the Board. Appen-

dix 4 lists the membership of the three review committees for the third competition (1982-83).

The review committees follow a system of peer review similar to that used by other granting agencies. Each application in the grants-in-aid category is sent out to one or more external reviewers expert in the area of research in the proposal. Within the peer review committee itself, individual members become primary reviewers to make in-depth assessments of the scientific merit and relevance of the proposals or the research potential of candidates. After rating and ranking all applications, each committee recommends a cutoff point. These judgments are outlined in a report to the Board.

The Board retains responsibilities to determine the assignment of funds for the competition. To fulfill this function, the Board has to establish priorities to best serve the research needs of the community -- for example, the relative importance of providing advanced training for students; "start-up" grants for newly established investigators; equipment essential for complex projects; and grants to established investigators. The Board retains final authority to make all appropriations after considering the recommendations of its review committees.

6. PROFILE OF THE THIRD COMPETITION

6.1 Applications Received

At the close of the third competition on March 15, 1982, the Board received 78 applications eligible for consideration and review. Thirty-eight were in the biomedical category; fifteen in socio-health; and twenty-five in personnel (twenty training fellowships, four research fellowships, one research scholar).

The applications originated in a wide variety of faculties and institutions (see Tables 1 - 3 for details).

6.2 Recommendations of Review Committees

The Biomedical Review Committee recommended funding thirty-two of the thirty-eight eligible applications (84.2%), which is a significant improvement in the approval rate from the first two competitions. This indicates that there is increased knowledge of the requirements of

a stringent peer review process in the research community. The Socio-Health Review Committee witnessed a similar improvement in caliber: thirteen of the fifteen applications were recommended (86.7%). The Personnel Committee recommended funding eighteen of the twenty training fellowship applicants (90%); three of the four research fellowship applicants (75.0%); and did not recommend the funding of the one scholar applicant.

6.3 Awards Made by the Saskatchewan Health Research Board

The Board awarded $739,039 in the third competition, consisting of thirteen biomedical grants - $367,389; eleven socio-health grants - $120,400; twelve training fellowships - $199,500; and two research fellowships - $51,750. This amount was similar to that awarded in the first two competitions.

The final amount that will be spent on Competition Three will ultimately depend on a number of factors. First, personnel awards begin July 1 of each year. The Board annualy reviews the amount of stipends, and awards cost-of-living increases to training and research fellows during the second year of their awards in most instances. On July 1, 1983, the annual value of the training and research fellowships respectively became $9,600 and $18,600. Hence the total amount spent will be increased. Second, some training and research fellows do not consume all of the awards because they have completed their programs, left their programs, taken up permanent employment, etc. Some money reverts to the Board from each competition. Third, some grant-in-aid funds are returned to the Board when there are balances remaining at the end of a project.

Tables 1 - 3 indicate the relationship among total applications received, those recommended for funding, and those actually funded by the Board. In the biomedical area, only 37.5% of recommended applicants could be funded, and only 28.5% of the recommended amounts were actually awarded. In socio-health, 84.6% of the recommended applications were funded, but only 59.6% of the recommended amount. It is important to point out that the twelve training fellows ultimately funded constitute all those who were available to take up the awards; others either refused the award, accepted other awards, or were detained out of the country. Two of the three recommended research fellows were funded. These latter statistics reinforce the

TABLE 1

SUMMARY OF ELIGIBLE BIOMEDICAL APPLICATIONS RECEIVED, RECOMMENDED FOR FUNDING, AND EVENTUALLY FUNDED, BY SOURCE OF APPLICATION COMPETITION THREE, 1982-83

Source	Total Applications No.	Total Applications Amount	Recommended No.	Recommended Amount	Funded No.	Funded Amount
Science, Faculty of, U of R	2	$ 100,000	2	$ 100,000	1	$ 21,250
Veterinary Medicine, College of, U of S	3	122,481	3	86,000	1	20,400
Pharmacy, Colege of, U of S	5	155,497	3	61,092	-	-
Dentistry, College of, U of S	2	90,820	2	78,820	2	66,997
Arts & Science, College of, U of S	2	100,000	1	45,550	-	-
Medicine, College of, U of S	22	767,170	20	716,528	8	237,658
Joint Applications*	2	72,194	1	49,697	1	21,084
TOTALS	38	$1,408,162	32	$1,137,687	13	$367,389

* One Phys. Ed. and Medicine, U of S; One Pharmacy and Medicine, U of S

TABLE 2

SUMMARY OF ELIGIBLE SOCIO-HEALTH APPLICATIONS RECEIVED, RECOMMENDED FOR FUNDING, AND EVENTUALLY FUNDED, BY SOURCE OF APPLICATION, COMPETITION THREE, 1982-83

Source	Total Applications		Recommended		Funded	
	No.	Amount	No.	Amount	No.	Amount
Psychiatric Centre, Union Hospital, Moose Jaw	1	$11,660	1	$ 3,000	[a]	[a]
Nursing, College of, U of S	1	4,500	1	4,500	1	$ 4,500
Regina Plains Community College	1	25,000	1	25,000	1	17,500
Merici Centre, Regina	1	50,000	1	25,000	1	17,500
Social Work, Faculty of, U of R	1	50,000	1	12,500	1	12,500
Battlefords Mental Health Centre	1	45,263	1	15,000	1	10,500
Physical Education, College of, U of S	1	27,900	1	14,000	1	9,000
Arts & Science, College of, U of S	2	55,050	-	-	-	-
Applied Psychiatric Research Unit	1	47,300	1	23,650	1	16,555
Medicine, College of, U of S	5	133,705	5	79,345	4	32,345
TOTALS	15	$450,378	13	$201,995	11	$120,400

[a] Grantee moved out-of-province subsequent to competition and was therefore ineligible for the award

TABLE 3

SUMMARY OF ELIGIBLE PERSONNEL APPLICATIONS RECEIVED, RECOMMENDED FOR FUNDING, AND EVENTUALLY FUNDED, BY SOURCE OF APPLICATION, COMPETITION THREE, 1982-83

Training Location for Recipients	Award Category*	Applications Received		Recommended		Funded by Board	
		No.	Amount**	No.	Amount	No.	Amount
Medicine, College of, U of S	TF	12	$216,000	10	$171,000	5	$ 73,500
	RF	2	69,000	2	69,000	1	34,500
	RSA	1	175,000	-	-	-	-
Arts & Science, College of, U of S	TF	3	54,000	3	54,000	3	54,000
Pharmacy, College of, U of S	TF	2	36,000	2	36,000	1	18,000
	RF	1	17,250	1	17,250	1	17,250
Science, Faculty of, U of R	TF	2	36,000	2	36,000	2	36,000
	RF	1	34,500	-	-	-	-
Medicine, Faculty of, U of Calgary	TF	1	18,000	1	18,000	1	18,000
TOTALS	TF	20	$360,000	18	$315,000	12	$199,500
	RF	4	120,750	3	86,250	2	51,750
	RSA	1	175,000	-	-	-	-

** TF and RF based on minimum annual stipends; Scholar based on $35,000/year for 5 years

* TF = training fellowship
RF = research fellowship
RSA = research scholar award

TABLE 4

GRANT APPLICATIONS AND AWARDS MADE
SHRB GENERAL FUND
1980-81 TO 1983-84

Year	No. Eligible Applications	Amount Requested*	RECOMMENDED No.	RECOMMENDED Amount	FUNDED No.	FUNDED Amount
1980-81	110	$3,408,975	53	$1,213,159	35	$681,373
% of total			48.2%	35.6%	31.8%	20.0%
% of recommended					66.0%	56.2%
1981-82	97	$3,238,718	46	$1,035,842	33	$697,214
% of total			47.4%	32.2%	34.0%	21.5%
% of recommended					71.7%	67.3%
1982-83	78	$2,541,315	66	$1,740,932	38	$739,039
% of total			84.6%		48.7%	29.4%
% of recommended					57.6%	42.5%
1983-84A**	76	$2,600,207	43	$1,245,385	25	$751,143
% of total			56.6%	47.9%	32.9%	28.9%
% of recommended					58.1%	60.3%
1983-84B***	18	$ 716,430				

* Amounts are artificially low, limited by the ceiling imposed on requests: $25,000 per year per grant through 1982-83, $27,500 for 1983-84; postdoctoral fellowships computed at minimum value even though a range is advertised

** Figures complete through September 15, 1983; some awards may be revised

*** Supplementary 1983-84 competition to be finalized in October 1983

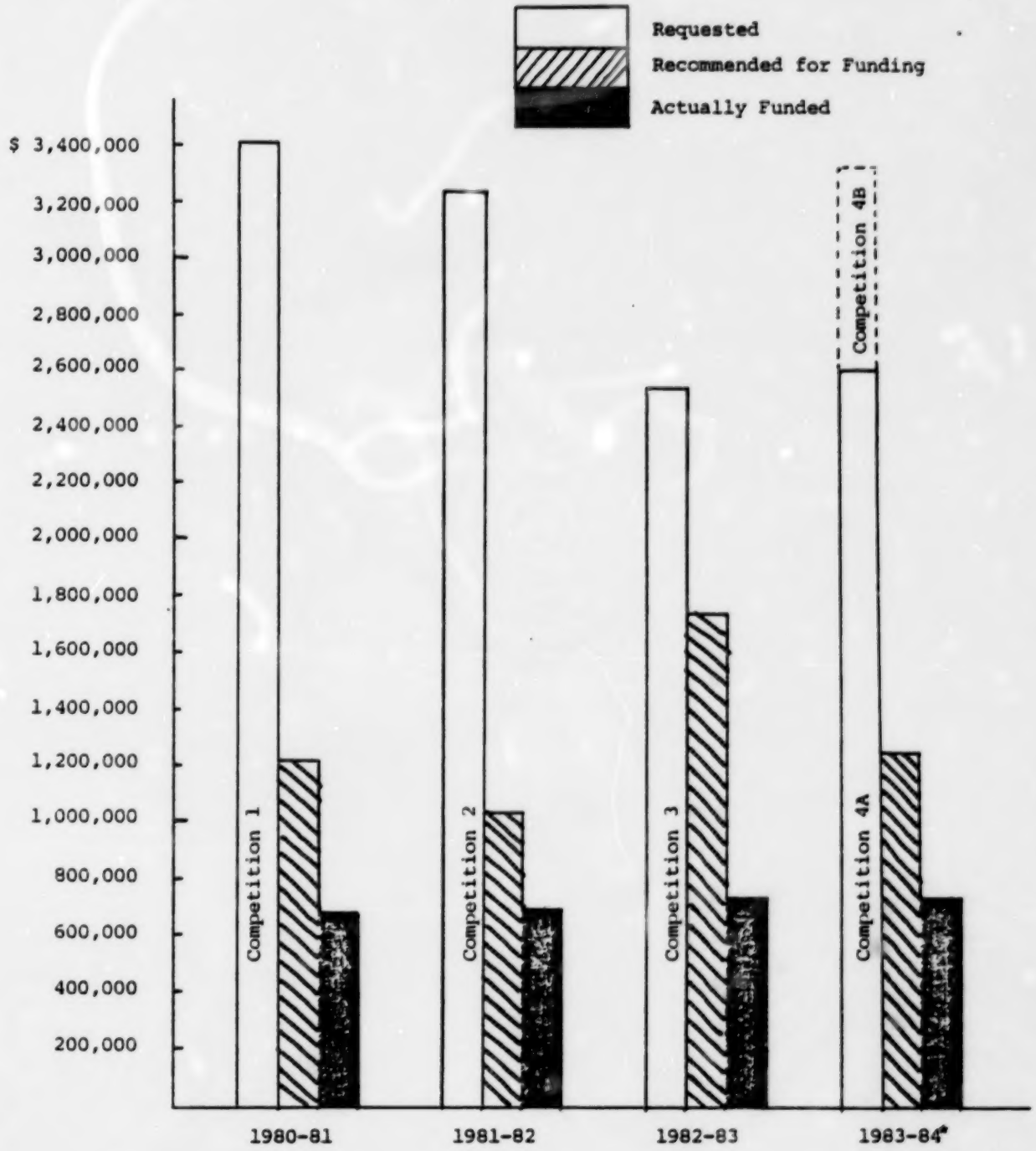

Figure 1 Dollar Amounts Requested, Recommended for Funding, and Actually Funded, First Four SHRB Competitions, All Award Categories

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* Preliminary - recommended and funded figures reflect Competition 4A only; dotted bar indicates amounts requested Competition 4B

Board's strong commitment to training young researchers for careers in Saskatchewan. (S Appendix 5 for details.)

It is important to note in examining all these figures that the grant and stipend ceilings of the SHRB are extremely low by national standards. No doubt requests would have been much higher had we not imposed an annual limit of $25,000 per annum per grant-in-aid.

Table 4 indicates the relationship among total applications, those recommended, and those actually funded throughout the history of the SHRB. The figures for 1983-84 are, of course, preliminary.

7. FUNDS FOR SPECIAL PURPOSES: LOW-LEVEL RADIATION RESEARCH

The Board is empowered under the Act to accept and administer funds for special purposes. The first grant which the Board consented to administer was for "low-level radiation research" from the Government of Saskatchewan.

7.1 Radiation Advisory Committee

In a letter of agreement of May 28, 1980, between the Department of Health and the Board, an advisory committee structure was outlined:

> A Radiation Research Advisory Committee will be established to advise the Health Research Board on the establishment of radiation research priorities, to screen research proposals, to monitor projects in progress, and to assist the Board with any other matters referred to it by the Board.
>
> However, it is understood that the Health Research Board will have complete executive powers over all aspects of radiation research projects funded by the Board.
>
> It is agreed that the Advisory Committee will be selected by the Health Research Board from nominees representing the Health Research Board and the Provincial Government, in equal numbers, plus additional members nominated by the first mentioned appointees. Generally, it is considered desirable to recognize the tripartite nature (the Board, the Provincial Government, and radiation experts) of interests represented on the Advisory Committee.

In Appendix 6, the membership of the Radiation Advisory Committee (RAC) from April 1, 1982 through March 10, 1983 is listed. This listing includes the consultants appointed by RAC to assist in defining objectives and analyzing technical aspects of radiation research questions.

7.2 Radiation Research Objectives

During 1980-81, RAC agreed on the general definition and objectives of radiation research.

> The general research objective is to establish the risk and effects of exposure to radiation, including all forms and sources, in the work place and elsewhere, with specific attention to the cumulative long-term effects of exposure.
>
> The research will be comprehensive, multidisciplinary in nature, and it may be long term. Although knowledge and research data from elsewhere should be considered, the research program as a whole must address contemporary Saskatchewan issues and situations relating to radiation.
>
> Although long-term research is to be encouraged, demonstrated progress within the initial five-year assessment period is important.

During 1981-82, the Radiation Advisory Committee and the Board agreed on long range plans and priorities for the development of the area. During 1982-83, the provincial government decided to undertake a review of radiation research activities in Saskatchewan. As a result, the activities of RAC were placed in limbo. As of the Fall of 1983, the review process has not yet been finalized.

The 1981-82 Annual Report of the SHRB outlines in detail the plans and priorities of the Radiation Advisory Committee. The extent to which these will be pursued will depend on both the government review, and future funding levels.

7.3 Radiation Research Grant

In 1980-81 the Board received a grant of $200,000 as an initial fund to determine what areas of research would be most important to Saskatchewan. The Board received a further $400,000 for radiation research in 1981-82. No monies have been received since 1981-82.

7.4 1982-83 Radiation Research Competition

The first radiation research competition was held in 1981, during which $200,000 was awarded. The fund had net assets of roughly $400,000 during 1982-83, resulting from unspent grants plus earned interest. The Board decided to proceed with a second competition, with the proviso that no future grants would be anticipated from government, and no funds would be committed beyond those already held.

The competition closed January 15, 1983. Six applications were received, requesting $1,042,478. Two applications originally submitted in the general SHRB 1982-83 competition were referred to RAC because of their subject matter.

One application was commissioned by RAC from the Saskatchewan Research Council to propose a comprehensive series of studies investigating the transfer of uranium-series radionuclides in the food chain in northern Saskatchewan. This application alone requested $765,929.

The projects were carefully assessed by the RAC Project Review Committee (see Appendix 7). All applicants were interviewed as part of the adjudication process.

Appendix 8 lists the four awards arising out of the competition. Two awards were recommended to RAC by the Board for 1982-83 funding: Blakley and Hayes. RAC accepted the recommendations and funded the two projects during 1982-83. The entire competition and adjudication process for the second competition took place in 1982-83. However, the composition of the Board, and consequently RAC, changed in March 1983, before final decisions could be taken by the Board. As a result, additional awards were not made until April 1963, during the 1983-84 fiscal year. The footnote to Appendix 8 indicates the relationship of the awards to the 1982-83 financial statements.

One award from the first competition, in the amount of $14,600, reverted to the radiation fund during 1982-83 when it became clear that logistical problems made it impossible to undertake the study.

The grant of $100,000 to the Saskatchewan Research Council is in the form of a semi-contractual agreement to undertake the self-contained portions of the radionuclide transfer study series. The grant was reduced in light of the uncertainty of the future of the low-level radiation fund.

7.5 Future Plans

RAC and the Board are awaiting the final outcome of the radiation research review being undertaken by the provincial government. The Board remains committed to the series of priorities established during 1981-82. Whatever configuration the organization of low-level radiation research assumes from the review, the Board remains committed to the perspective that these and other environmental studies are essential to the well-being of the Saskatchewan population, and particularly northerners.

APPENDIX 1

MEMBERS OF THE BOARD

(April 1, 1982 Through March 10, 1983)

Dr. Agnes Groome (Chairman)
Systems and Analytical Services
University of Regina
Regina, Saskatchewan

Dr. Alan A. Boulton
Director, Psychiatric Research
Division, Dept. of Health and
Professor, Dept. of Psychiatry
University Hospital
University of Saskatchewan
Saskatoon, Saskatchewan

Mrs. Demi Dunlap
Principal, Holliston School
1511 Louise Avenue
Saskatoon, Saskatchewan

Dr. David Eidinger
Professor and Head
Dept. of Microbiology
University of Saskatchewan
Saskatoon, Saskatchewan

Mrs. Esther R. Grogin
Associate Professor of Nursing and
Associate Member in Cont. Education
Room 431, Ellis Hall
University of Saskatchewan
Saskatoon, Saskatchewan

Dr. Louis Horlick
Professor, Dept. of Medicine
University Hospital
University of Saskatchewan
Saskatoon, Saskatchewan

Dr. Sarah Landy[1]
Executive Director
Policy and Program Division
Dept. of Continuing Education
1855 Victoria Avenue
Regina, Saskatchewan

Ms. Elaine McNeil
Health Education Consultant
3175 Angus Street
Regina, Saskatchewan

Dr. James M. Naylor (Vice-Chairman)
Professor, Dept. of Biology
University of Saskatchewan
Saskatoon, Saskatchewan

Dr. Donald J. Philippon
Director
Policy, Research and Management
Services Branch
Dept. of Health
T.C. Douglas Building
3475 Albert Street
Regina, Saskatchewan

Dr. William M. Sibley
Chairman, Saskatchewan
Universities Commission
2302 Arlington Avenue
Saskatoon, Saskatchewan

Dr. Harvey Stalwick
Professor
Faculty of Social Work
University of Regina
Regina, Saskatchewan

[1] Resigned June 1982

APPENDIX 1A

INCOMING BOARD MEMBERS

(March 10, 1983 Through March 31, 1983)

Dr. Dennis D. Johnson (Chairman)
Assistant Dean, Research
College of Medicine
University of Saskatchewan
Saskatoon, Saskatchewan

Dr. David Eidinger, Professor
Department of Microbiology
College of Medicine
University of Saskatchewan
Saskatoon, Saskatchewan

Ms. Agnes Herd
Planning Branch
Dept. of Advanced Education and Manpower
1855 Victoria Avenue
Regina, Saskatchewan

Dr. Robert Hickie, Professor
Department of Pharmacology
College of Medicine
University of Saskatchewan
Saskatoon, Saskatchewan

Dr. Louis Horlick (Vice-Chairman)
Professor, Dept. of Medicine
University of Saskatchewan
Saskatoon, Saskatchewan

Dr. Peter Matthews
Child and Youth Psychiatry
Ellis Hall
University Hospital
Saskatoon, Saskatchewan

Dr. Donald J. Philippon
Director
Policy, Research and Management Services Branch
Dept. of Health
T.C. Douglas Building
3475 Albert Street
Regina, Saskatchewan

Ms. Una Ridley
Dean
College of Nursing
University of Saskatchewan
Saskatoon, Saskatchewan

Dr. William M. Sibley, Chairman
Saskatchewan Universities Commission
2302 Arlington Avenue
Saskatoon, Saskatchewan

Dr. Ronald Sommervill
402 - 25th Street West
Prince Albert, Saskatchewan

Dr. Harvey Stalwick[1]
Professor
Faculty of Social Work
University of Regina
Regina, Saskatchewan

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[1] Resigned March 31, 1983

APPENDIX 2

FINANCIAL STATEMENTS

AND

THE AUDITOR'S REPORT THEREON

AUDITOR'S REPORT

To the Members of The Legislative Assembly
Province of Saskatchewan

I have examined the balance sheet of the Saskatchewan Health Research Fund as at March 31, 1983 and the statements of revenue, expenditure and fund balance and changes in financial position for the year then ended. My examination was made in accordance with generally accepted auditing standards, and accordingly included such tests and other procedures as I considered necessary in the circumstances.

In my opinion, these financial statements present fairly the financial position of the Fund as at March 31, 1983 and the results of its operations and the changes in its financial position for the year then ended in accordance with generally accepted accounting principles applied on a basis consistent with that of the preceding year.

W.G. Lutz, F.C.A.,
Provincial Auditor.

Regina, Saskatchewan,
May 20, 1983.

Statement 1

SASKATCHEWAN HEALTH RESEARCH FUND

BALANCE SHEET

March 31, 1983

ASSETS

	1983			
	General Fund	Radiation Fund	Combined	1982
Cash	$ 2,023	$ 11,520	$ 13,543	$ 22,133
Accrued interest receivable	86,972	16,504	103,476	89,355
Inter-fund receivable (payable)	13,711	(13,711)	-	-
Investments, at cost which approximates market value	1,931,898	503,402	2,435,300	2,325,935
Fixed assets	15,687	-	15,687	15,404
Other assets	206	-	206	1,993
	$2,050,497	$517,715	$2,568,212	$2,454,820

LIABILITIES AND FUND BALANCE

Grants payable	$ 516,042	$ 81,875	$ 597,917	$ 749,639
Accounts payable	2,000	-	2,000	5,367
	518,042	81,875	599,917	755,006
Equity in fixed assets	15,687	-	15,687	15,404
Fund balance - Statement 2	1,516,768	435,840	1,952,608	1,684,410
	$2,050,497	$517,715	$2,568,212	$2,454,820

(See accompanying notes to the financial statements)

Statement 2

SASKATCHEWAN HEALTH RESEARCH FUND

STATEMENT OF REVENUE, EXPENDITURE AND FUND BALANCE

For the Year Ended March 31, 1983

	1983			
	General Fund	Radiation Fund	Combined	1982
Revenue:				
Grant - Department of Health	$ 750,000	$ -	$ 750,000	$1,150,000
Interest	264,766	77,163	341,929	381,213
Other	-	-	-	4,490
Total revenue	$1,014,766	$ 77,163	$1,091,929	$1,535,703
Expenditure:				
Research grants	688,788	8,605	697,393	865,247
Wages and benefits	64,597	-	64,597	62,484
Administrative and operating expenses	12,888	1,387	14,275	17,588
Honoraria and expenses of the board and/or committees	21,366	2,703	24,069	23,816
Furniture and fixtures	283	-	283	7,656
Rent	10,534	-	10,534	8,937
Consulting fees	-	12,580	12,580	6,370
Administration fee (Note 4)	(30,807)	30,807	-	-
Total expenditure	767,649	56,082	823,731	992,098
Excess of revenue over expenditure	247,117	21,081	268,198	543,605
Fund balance, beginning of year	1,269,651	414,759	1,684,410	1,140,805
Fund balance, end of year - to Statement 1	$1,516,768	$ 435,840	$1,952,608	$1,684,410

(See accompanying notes to the financial statements)

Statement 3

SASKATCHEWAN HEALTH RESEARCH FUND

STATEMENT OF CHANGES IN FINANCIAL POSITION

For the Year Ended March 31, 1983

	1983			
	General Fund	Radiation Fund	Combined	1982
Source of funds:				
Grant receipts	$ 750,000	$ -	$ 750,000	$1,150,000
Interest and other receipts	258,430	69,378	327,808	364,150
	1,008,430	69,378	1,077,808	1,514,150
Application of funds:				
Grants paid	729,150	119,965	849,115	614,694
Other disbursements	89,244	38,674	127,918	128,857
	818,394	158,639	977,033	743,551
Increase in cash and investments	190,036	(89,261)	100,775	770,599
Cash and investments, beginning of year	1,743,885	604,183	2,348,068	1,577,469
Cash and investments, end of year (Note 3)	$ 1,933,921	$ 514,922	$2,448,843	$2,348,068
Comprised of:				
Cash	$ 2,023	$ 11,520	$ 13,543	$ 22,133
Investments	1,931,898	503,402	2,435,300	2,325,935
	$ 1,933,921	$ 514,922	$2,448,843	$2,348,068

(See accompanying notes to the financial statements)

SASKATCHEWAN HEALTH RESEARCH FUND

NOTES TO FINANCIAL STATEMENTS

March 31, 1983

1. Authority

The Saskatchewan Health Research Fund is a special purpose fund established under the provisions of The Health Research Act and is administered by the Saskatchewan Health Research Board for the purpose of assisting and stimulating research in the healing arts and health sciences. Pursuant to proclamation of the Act, the Fund came into being on September 15, 1979. During 1981 the Board was awarded status as a registered charity under The Income Tax Act.

The Radiation Fund was established in the 1981 fiscal year pursuant to an agreement entered into between the Department of Health and the Saskatchewan Health Research Board under which the Board agreed to administer and allocate monies received from the Department. The agreement also provides that the use of these funds be restricted to radiation research and costs incurred in administering and allocating the funds.

2. Accounting Policies

(a) Fund Accounting

The Saskatchewan Health Research Fund follows fund accounting procedures in which a self-balancing group of accounts is provided for both the General Fund and the Radiation Fund.

(b) Research Grants

The Saskatchewan Health Research Board holds annual competitions through which funds are awarded to successful applicants for terms of up to two years. The Fund follows the policy of recording the grant awards approved and committed during the year as expenditures. At year end, awards which have not been paid but are still committed for a competition are shown as grants payable on the balance sheet of the Fund. In the event of the completion or termination of a project, or non-compliance with the terms of an award, the balance of unexpended funds is treated as a reduction of grant expenditure in the year that this is determined. These funds are then available to be awarded for future research.

2. Accounting Policies - (continued)

(c) Fixed Assets

Fixed asset purchases are charged as an expense against operations in the year of purchase and are therefore not depreciated. All fixed asset additions charged to expense are reflected in the statement of revenue, expenditure and fund balance. To reflect accountability for fixed assets in the financial statements, it is necessary to record them as balance sheet assets with a corresponding entry to "Equity in Fixed Assets".

(d) Investments

The Fund records investment transactions at cost.

3. Cash and Investments

In accordance with a request of the Department of Health, the Saskatchewan Health Research Board agreed to retain $500,000 of the Provincial grant received each of the first two years, $250,000 of the grant received in the third year and $175,000 of the grant received in the current year for the General Fund as invested capital. Accordingly, the Board considers that, of the cash and investments balance at March 31, 1983, $1,425,000 (1982 - $1,250,000) is being retained as 'invested capital' of the General Fund.

4. Administration Costs

By resolution of the Board, the radiation fund is charged with 35% of the administrative costs of the general fund (exclusive of direct costs associated with health research competitions). The amount of the interfund charge is reflected as an administration fee in the financial statements.

5. Commitments

As at March 31, 1983, the Board was committed to a lease agreement for office premises with payments in future years as follows:

1984 - $10,534
1985 - $10,534
1986 - $10,534
1987 - $3,511

APPENDIX 3

SASKATCHEWAN HEALTH RESEARCH BOARD

TERMS OF REFERENCE FOR REVIEW COMMITTEES

(Amended 1981)

1. That the Chairman of each of the three Committees be a Board member.

2. That there be no other Board member serving on any of the Review Committees.

3. That the Chairman of the Committee have a casting vote only in order to break a tie.

4. That the Chairman of each Committee be responsible for the following:

   a) To select and assign applications to primary reviewers on his Committee;

   b) Together with the Committee members, the Chairman will select external peer reviewer(s) in Saskatchewan and/or outside the province for each grant-in-aid application;

   c) The programming, harmonization and chairing of the Review Committee meetings in such a way as to arrive at conclusions and recommendations to the Board within the time frame of the agreed period, i.e., March 15 - May 15;

   d) The preparation of the report including recommendations of the Committee and presentation of it to the Board.

5. The prime objective and the responsibility of each Committee is to review the grant applications strictly on the basis of their scientific merit. The Committee should also recommend a cutoff point below which no grants would be funded, i.e., recommend a payline.

6. It is strongly emphasized that the deliberations and recommendations of the Committees must always be kept in strict confidence.

APPENDIX 4

GRANTS-IN-AID BIOMEDICAL REVIEW COMMITTEE 1982-83

Dr. Louis Horlick (Chairman)
Professor
Department of Medicine
University of Saskatchewan
Saskatoon, Saskatchewan

Dr. D. J. Klaassen
Director
Saskatoon Cancer Clinic
University Hospital
Saskatoon, Saskatchewan

Dr. Gordon E. Johnson
Professor and Head
Department of Pharmacology
University of Saskatchewan
Saskatoon, Saskatchewan

Dr. Jonathan R. Dimmock
Professor
College of Pharmacy
University of Saskatchewan
Saskatoon, Saskatchewan

Dr. Peter Innes
Head
Department of Oral Biology
College of Dentistry
University of Saskatchewan
Saskatoon, Saskatchewan

Dr. W. Wayne Lautt
Associate Professor
Department of Physiology
University of Saskatchewan
Saskatoon, Saskatchewan

Dr. Helmut Bertrand
Professor
Department of Biology
University of Regina
Regina, Saskatchewan

Dr. Don Hamilton
Professor and Head
Department of Veterinary
Physiological Sciences
University of Saskatchewan
Saskatoon, Saskatchewan

Dr. B. D. McLennan
Professor
Department of Biochemistry
University of Saskatchewan
Saskatoon, Saskatchewan

Dr. S. Fedoroff
Professor and Head
Department of Anatomy
University of Saskatchewan
Saskatoon, Saskatchewan

Dr. J. Dosman
Department of Medicine
Ellis Hall
University Hospital
Saskatoon, Saskatchewan

Dr. L. Qualtiere
Department of Microbiology
University of Saskatchewan
Saskatoon, Saskatchewan

APPENDIX 4A

GRANTS-IN-AID SOCIO-HEALTH REVIEW COMMITTEE 1982-83

Dr. Harvey N. Stalwick (Chairman)
Professor
Faculty of Social Work
University of Regina
Regina, Saskatchewan

Dr. Harold R. Baker
Professor of Extension
Associate Member in Cont. Education
University of Saskatchewan
Saskatoon, Saskatchewan

Dr. Jack A. Boan
Professor
Department of Economics
University of Regina
Regina, Saskatchewan

Dr. Carl D'Arcy
Clinical Assistant Professor
Department of Psychiatry
University Hospital
Saskatoon, Saskatchewan

Dr. Donald G. Fischer
Professor
Department of Psychology
University of Saskatchewan
Saskatoon, Saskatchewan

Mrs. Jean Innes
Professor
College of Nursing
University of Saskatchewan
Saskatoon, Saskatchewan

Dr. Stanley Stead
Professor
Department of Social and
Preventive Medicine
University of Saskatchewan
Saskatoon, Saskatchewan

Mr. Graham C. P. Riches
Assistant Dean of Social Work
Faculty of Social Work
University of Regina
Regina, Saskatchewan

Mr. Greg Robart
Director of Administration
Regina Plains Community College
2708 12th Avenue
Regina, Saskatchewan

Dr. John Bury
Saskatoon Community Clinic
455 Second Avenue North
Saskatoon, Saskatchewan

APPENDIX 4B

PERSONNEL REVIEW COMMITTEE 1982-83

Dr. Alan A. Boulton (Chairman)
Director, Psychiatric Research
Division, Dept. of Health and
Professor, Dept. of Psychiatry
University Hospital
University of Saskatchewan
Saskatoon, Saskatchewan

Dr. Taylor A. Steeves
Professor and Head
Department of Biology
University of Saskatchewan
Saskatoon, Saskatchewan

Dr. Lucy D. Willis
Professor of Nursing
University of Saskatchewan
Saskatoon, Saskatchewan

Dr. R. Marvin Bala
Head
Department of Medicine
University Hospital
Saskatoon, Saskatchewan

Dr. Don A. Bailey
Professor
College of Physical Education
University of Saskatchewan
Saskatoon, Saskatchewan

Dr. Robert M. Stirling
Professor
Department of Sociology
University of Regina
Regina, Saskatchewan

Dr. Rod A. Kelln
Associate Professor
Department of Chemistry
University of Regina
Regina, Saskatchewan

Dr. Tom B. Wishart
Associate Professor and Head
Department of Psychology
University of Saskatchewan
Saskatoon, Saskatchewan

Dr. Tom Wilson
Associate Professor of Pharmacology
and Medicine and Associate Member in
Diagnosis and Oral Radiology
Department of Pharmacology
University of Saskatchewan
Saskatoon, Saskatchewan

Dr. Vera Pezer
Assistant Dean of Arts and Science
and Director, Student Counselling Services
University of Saskatchewan
Saskatoon, Saskatchewan

Ms. Mary Anne Weston
Youth Services
1601 College Avenue
Regina, Saskatchewan

Mr. Frank Silversides
Professor of Industrial Relations
and Organizational Behaviour
College of Commerce
University of Saskatchewan
Saskatoon, Saskatchewan

APPENDIX 5

AWARDS GRANTED IN THE THIRD COMPETITION

Awardee - Supervisor - Discipline - Institution	Award Amount And Duration
TRAINING FELLOWSHIPS	
BRIDGE, P.J. (Bertrand, H.), Biochemistry, U. Regina	$9,000-82-83 9,000-83-84
BROWN, C.R. (McDOWELL, K.V.), Psychology, U. Saskatchewan	9,000-82-83 9,000-83-84
DATAR, S. (McNEILL, J.R.), Pharmacology, U. Saskatchewan	9,000-82-83 9,000-83-84
EL-KABBANI, O. (DELBAERE, L.), Biochemistry, U. Saskatchewan	9,000-82-83 9,000-83-84
JARDINE, K. (ZEMORE, R.), Psychology, U. Saskatchewan	9,000-82-83 9,000-83-84
JAWORSKI, T.J. (HAWES, E.M.), Pharmacy, U. Saskatchewan	9,000-82-83 9,000-83-84
LAING, G.P. (RADEMAKER, A.),Medical Sciences, U. Calgary	9,000-82-83 9,000-83-84
LIAN, C. (NG, S.), Microbiology, U. Saskatchewan	1,500-82-83
MICHAELS, G. (KELLN, R.A.), Chemistry, U. Regina	9,000-82-83 9,000-83-84
PANCYR, G.C. (GENEST, M.), Psychology, U. Saskatchewan	9,000-82-83 9,000-83-84
TUER, R.G. (HAYES, S.), Microbiology, U. Saskatchewan	9,000-82-83 9,000-83-84
YU, A.C. (HERTZ, L.), Pharmacology, U. Saskatchewan	9,000-82-83 9,000-83-84
RESEARCH FELLOWSHIPS	
McKAY, G. (MIDHA, K.), Pharmacy, U. Saskatchewan	17,250-82-83
MATHINOS, P.R. (FEDOROFF, S.), Anatomy, U. Saskatchewan	17,250-82-83 17,250-83-84

APPENDIX 5 (CONTINUED)

AWARDS GRANTED IN THE THIRD COMPETITION

RESEARCH GRANTS - BIOMEDICAL

Awardee - Discipline - Institution - Project	Award Amount And Duration
BERTRAND, H., Biology, U. Regina Physiological Functions of Mitochondrial Genes as Determined Through Respiration-Deficient, Deletion Mutants of Neurospora Crassa	$ 21,250-82-83
CHISHOLSM, I., STEAD, S., TAN, L.K., Opthalmology, U. Saskatchewan Eye Wall Stress as a Prognostic Indicator of Glaucoma	5,695-82-83
CHRISTENSEN, L.V., Dentistry, U. Saskatchewan Fluoride-Releasing Acrylic Resin for Prosthetic Applications	15,266-82-83 12,886-83-84
DYCK, R.F., Medicine, U. Saskatchewan The Pentameric Protenis and the Acute Phase Response	19,125-82-83 20,825-83-84
GANGULI, P.C., Medicine, U. Saskatchewan Development of a Microcomputer for 24-hour Esophageal pH Monitoring in Ambulatory Patients	8,000-82-83
HINDMARSH, K.W., SANKARAN, K., Pharmacy and Medicine, University of Saskatchewan Determination of β-Endorphin Levels in the Newborn - with Particular Emphasis on Gestational Age and Clinical Complications	21,084-82-83
LEE, J., Biochemistry, U. Saskatchewan Systemic Lupus Erythematosus	21,250-82-83 21,250-83-84
INNES, P.B., Oral Biology, U. Saskatchewan The Role of Neural Crest Cells in Craniofacial Development	20,400-82-83 18,445-83-84

APPENDIX 5 (CONTINUED)

AWARDS GRANTED IN THE THIRD COMPETITION

Awardee - Discipline - Institution - Project	Award Amount And Duration
LOH, L.C., Microbiology, U. Saskatchewan The Characterization of Murine Cytomegalovirus-Induced Immediate-Early and Early Proteins	$20,000-82-83
MISRA, V., Veterinary Microbiology, U. Saskatchewan 'EARLY' Glycoproteins of Herpes Simplex Viruses	20,400-82-83
PATO, M.D., Biochemistry, U. Saskatchewan Smooth Muscle Phosphatases and their Role in Contractile Activity	21,250-82-83 21,250-83-84
ROSENBERG, A.M., Pediatrics, U. Saskatchewan Childhood Rheumatic Diseases in Saskatchewan: A Population Survey	21,250-82-83 15,725-83-84
SHEPPARD, M.S., Medicine, U. Saskatchewan Control of Somatomedin Secretion	20,788-82-83 21,250-83-84
RESEARCH GRANTS (SOCIO-HEALTH)	
D'ARCY, K.C.R., Psychiatry, U. Saskatchewan Impairments, Disabilities and Handicaps: An Epidemiological Survey	16,555-82-83
DYCK, S., Wright K., Nursing, U. Saskatchewan Nursing Needs of Cancer Patients' Family Members	4,500-82-83
JENNETT, P.A., Continuing Medical Education, U. Saskatchewan A Study of the Effectiveness of Continuing Medical Education in Improving Physician Performance	12,000-82-83
KNOWLES, J.P., Adult Education, Regina Plains Community College Childbirth Education Research Project (Phase III)	17,500-82-83
LANDY, S.E., Psychology, U. Regina A Longitudinal Study of Teenage Mothers, Their Infants and the Resulting Mother-Infant Dyads	17,500-82-83
MacLACHLAN, T.B., Obstetrics and Gynecology, U. Saskatchewan Health Care Utilization by Females in Saskatchewan	11,000-82-83
MIRWALD, R.L., Physical Education, U. Saskatchewan Data Synthesis and Analysis of a Mixed Longitudinal Study of Saskatchewan Girls Ages 7 to 16 Years	9,000-82-83

APPENDIX 5 (CONTINUED)

AWARDS GRANTED IN THE THIRD COMPETITION

Awardee - Discipline - Institution - Project	Award Amount And Duration
MITCHELL, D.M., Medicine, U. Saskatchewan Health Care Costs in Rheumatoid Arthritis	$ 5,000-82-83
PAQUIN, M.J.R., Psychology, Battlefords Mental Health Centre, North Battleford Mental Health Promotion and Maintenance: Development and Initial Evaluation of Lawson Centre's Novel 'Generalization, Maintenance and Transfer' Service	10,500-82-83
RALPH, D., HARDING, J., Social Work, U. Regina A Community Based Socio-Health Impact Assessment of Northern Saskatchewan	12,500-82-83
STEAD, S., ANDERSON, C.M., Social and Preventive Medicine, U. Saskatchewan Measles Elimination - The Hard to Reach Child	4,345-82-83

APPENDIX 6

MEMBERS OF THE RADIATION ADVISORY COMMITTEE
to the SASKATCHEWAN HEALTH RESEARCH BOARD

(April 1, 1982 Through March 10, 1983)

Dr. James M. Naylor (Chairman)
Professor, Department of Biology
University of Saskatchewan
Saskatoon, Saskatchewan

Dr. Alan A. Boulton
Director, Psychiatric Research
Division, Dept. of Health and
Professor, Dept. of Psychiatry
University Hospital
University of Saskatchewan
Saskatoon, Saskatchewan

Dr. David Eidinger
Professor and Head
Department of Microbiology
University of Saskatchewan
Saskatoon, Saskatchewan

Mr. W. F. (Rick) Roger
Acting Executive Director
Saskatchewan Hospital Services Plan
T. C. Douglas Building
3475 Albert Street
Regina, Saskatchewan

Mr. Robert Sass[1]
Associate Deputy Minister
Department of Labour
1150 Rose Street
Regina, Saskatchewan

Mr. Randy R. Sentis
Director, Mines Pollution Control
Branch
Department of the Environment
55 Thirteenth Street East
Prince Albert, Saskatchewan

Mr. John R. Alderman
Chief Inspector of Mines
Department of Labour
1150 Rose Street
Regina, Saskatchewan

[1] Until August 1982

To date, RAC has appointed the following three scientists to act as consultants in particular areas of health-related radiation research:

Dr. David V. Bates
St. Paul's Hospital
Pulmonary Research Laboratory
1081 Burrard Street
Vancouver, British Columbia

Dr. Lloyd D. Skarsgard
B. C. Cancer Research Centre
602 West Tenth Avenue
Vancouver, British Columbia

Dr. L. D. Brown
Chief Radiation Health Physicist
Occupational Health and Safety
Branch
Department of Labour (Saskatchewan)
1150 Rose Street
Regina, Saskatchewan

NOTE: The existing RAC membership in part terminated March 10, 1983, with the changing of the Board. The new RAC membership was constituted April 7, 1983.

APPENDIX 7

RAC PROJECT REVIEW COMMITTEE 1982-83

Dr. Alan A. Boulton (Chairman)
Director, Psychiatric Research
Division, Dept. of Health and
Professor, Dept. of Psychiatry
University Hospital
University of Saskatchewan
Saskatoon, Saskatchewan

Dr. S. O. Fedoruk
Director
Physics Services
Saskatchewan Cancer Foundation
University Hospital
Saskatoon, Saskatchewan

Dr. L. H. Greenberg
Head
Dept. of Physics and Astronomy
University of Regina
Regina, Saskatchewan

Dr. D. J. Klaassen
Director
Saskatoon Cancer Clinic
University Hospital
Saskatoon, Saskatchewan

Dr. U. T. Hammer
Department of Biology
University of Saskatchewan
Saskatoon, Saskatchewan

Dr. R. E. Redmann
Professor
Department of Plant Ecology
University of Saskatchewan
Saskatoon, Saskatchewan

Dr. B. Schiefer
Professor
Department of Pathology
Western College of Veterinary Medicine
University of Saskatchewan
Saskatoon, Saskatchewan

Dr. R. West
Provincial Epidemiologist
T. C. Douglas Building
3475 Albert Street
Regina, Saskatchewan

APPENDIX 8

RAC AWARDS GRANTED DURING THE SECOND COMPETITION

Grantee	Project Title	Award Amount And Duration
BLAKLEY, B.R. Vet. Physiology, U. Saskatchewan	The Effects of Uranium-Mining Contaminants on Urathen-Induced Lung Adenomas	$ 12,155-82-83* 14,000-83-84
HAYES, S. Microbiology, U. Saskatchewan	Validation of the Bacteriophage Lambda Replicative Killing Assay for Use in Determining the Biological Effect of Low Levels of Radiation	$ 11,050-82-83*
HOLT, S. Medicine, U. Saskatchewan	Radioimmunolocalisation of Cancer with Monoclonal Antibodies and Peanut Lectin	$ 55,000-83-84
SWANSON, S. Saskatchewan Research Council	Transfer of Uranium-Series Radionuclides in the Food Chain in Northern Saskatchewan: a) Aquatic Studies b) Botanical Terrestrial Studies	$100,000-83-84

* These amounts appear in the financial statements for 1982-83; the remaining amounts will appear on the 1983-84 financial statements because the final approval from the Board took place April 7, 1983 (i.e. at the beginning of the 1983-84 fiscal year)

POOR

QUALITY

ORIGINAL